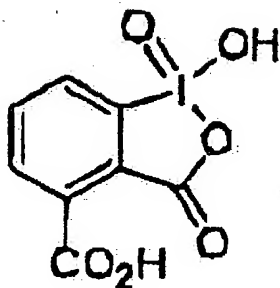
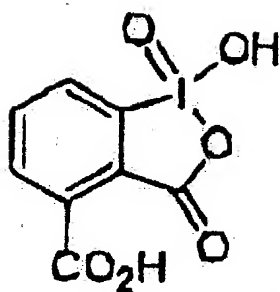


## Claims

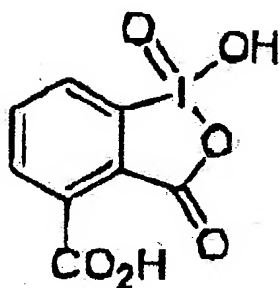
1. A modified iodoxybenzoic acid compound having generally the following structure:



2. A method of synthesizing a modified iodoxybenzoic acid compound from 3-nitrophthalic acid comprising:
- (a) esterification of 3-nitrophthalic acid using a corresponding acid chloride, to produce a nitrodiester;
  - (b) catalytic hydrogenation of said nitrodiester, to produce an aminodiester;
  - (c) diazotization of said aminodiester by iodination of said aminodiester, to produce dimethyl 3-iodophthalate;
  - (d) saponification of said dimethyl 3-iodophthalate;
  - (e) acidification of said dimethyl 3-iodophthalate, to produce 3-iodophthalic acid; and
  - (f) oxidation of said 3-iodophthalic acid to produce a modified iodoxybenzoic acid compound having generally the following structure:



3. A method of oxidizing a substrate comprising reacting said substrate with a modified iodoxybenzoic acid compound having generally the following structure:



4. The method of claim 3 wherein said substrate is an allylic alcohol.

5. The method of claim 3 wherein said substrate is a benzylic alcohol.

6. The method of claim 3 wherein the oxidation reaction between said substrate and said modified iodoxybenzoic acid compound takes place in an aqueous solution.

7. The method of claim 3 wherein said substrate is selected from the group consisting of 2-Buten-1-ol, *trans*-2-Hexen-1-ol, *trans*-3-Phenyl-2-propen-1-ol, Hydroxymethylbenzene, 4-Nitrobenzenemethanol, 4-Bromobenzenemethanol, 4-Methoxybenzenemethanol, 1,2-Benzenedimethanol, 1-(3-Nitrophenyl)ethanol  $\alpha$ -Methyl-3-nitrobenzenemethanol, 1,2-Diphenyl-1,2-ethanediol, 1-Phenyl-1,2-ethanediol and 4-(3-Hydroxypropoxy)benzenemethanol.